Green Beyond Gray Webinar Series

Using i-Tree Hydro to Model Green Infrastructure

i-Tree Overview

i-Tree Hydro is a stand alone application designed to simulate the effects of changes in tree and impervious cover characteristics within a defined watershed on stream flow and water quality. It was designed specifically to handle urban vegetation effects so urban natural resource managers and urban planners can quantify the impacts of changes in tree and impervious cover on local hydrology to aid in management and planning decisions.

What: Free webinar

When: Thursday, June 27, 2013

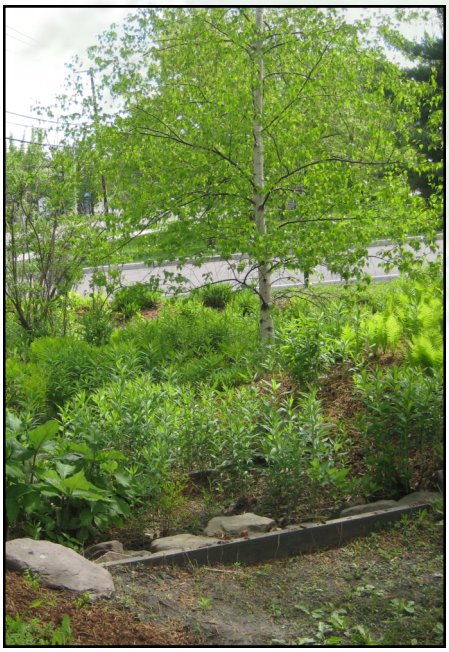
2:30 PM—4:00 PM

Where: Your computer

Register: http://tinyurl.com/l7jp2uo

Questions: justin.kenney@state.vt.us

Researchers at the State University of New York in Syracuse are using i-Tree Hydro to model the hydrologic impacts (water quality and quantity) of green infrastructure. Green infrastructure includes a variety of methods such as rain gardens, bioretention basins, and green roofs used to capture, infiltrate, and transpire rainfall and runoff. Using predominantly natural processes, green infrastructure can clean water, restore soils, landscapes, and receiving water, improve air temperature and quality, and fortify and sustain our economy.



Presented by: *Ted Endreny, Ph.D., P.H., P.E. and the ESF Team*

Ted Endreny is a professor in the SUNY ESF Department of Environmental Resources Engineering in Syracuse, NY. He has a PhD in Water Resources Engineering, a MS in Agricultural and Biological Engineering, a BS in Natural Resources Science, and licensure as a Professional Engineer and Professional Hydrologist. He has been a developer of i-Tree Hydro and other i-Tree tools through his research partnership with the USDA Forest Service. Endreny teaches and mentors students in engineering methods to monitor, model, and restore natural resources for the sustainable provision of needed services while addressing population, land use, and climate change pressures. Endreny's ESF Team uses environmental resources engineering to help communities plan, design, and manage for water, food, energy, and health security. The ESF Team includes Ph.D. students Tom Taggart and Emily Stephan.

Brought to you by the Vermont Green Infrastructure Initiative
http://www.vtwaterquality.org/stormwater/htm/sw_green_infrastructure.htm

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